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User Manual

OSRAM SPOT by IPEMOTION

OPC Plug-In

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1. General Information

This manual describes the usage of the **OSRAM IPEmotion Plug In OPC**. Please read this manual carefully to get to know the operating and to learn more about the functions and special features. This manual also contains information for installing and removing the software.

1.1. Version

1.1.1. User Manual

This manual has the version 01.00.

1.1.2. OSRAM IPEmotion Plug In OPC

The description in this documentation refers to the current release with the version number 00.00.01

1.1.3. IPEmotion

The description in this documentation refers to the current release with the version number 2014 R1.4.

2. Introduction

The **OSRAM IPEmotion Plug In OPC** offers you the ability to read data from or write data into OPC server. The actual version is able to connect to local server or in most cases to remote server via OPC tunnel. The direct connect to remote server may be work but is not yet implemented.

The actual version support OPC Data Access Specification V 2.0. The plug in is able to read the following data types

- Bit
- 8 bit integer
- 8 bit unsigned integer
- 16 bit integer
- 16 bit unsigned integer
- 32 bit integer
- 32 bit unsigned integer
- 32 bit float
- 64 bit float
- Text string

All data types above, except text string, are writable.

3. Setting Up And Removing

3.1. System Requirements

The minimum hardware and platform requirements for the application of the **OSRAM IPEmotion Plug In OPC** are outlined below.

3.1.1. Hardware

The minimum hardware requirements correspond to those of IPEmotion.

3.1.2. Platforms

The Plug In can be run under the following operating systems:

- Windows 7 (32 Bit) (or under 64 Bit system as a 32 Bit application)

3.2. Installation

The following chapters guide you through the installation process of the OPC Plug In.

OSRAM IPEmotion Plug In OPC needs administrator rights during installation.

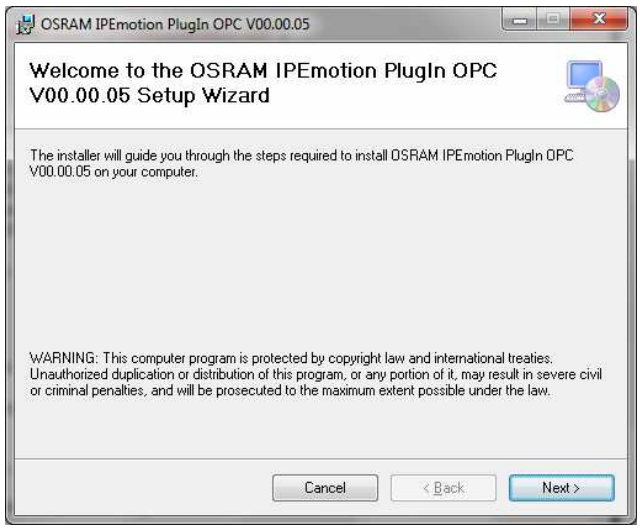
The installation of the plug in is based on an installation wizard that guides you through the setup process step by step.

To install the plug in:

1. Double-click the file

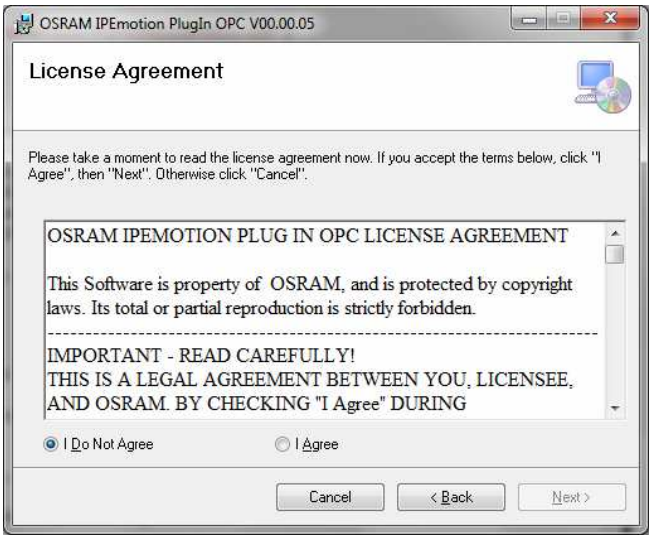
   Setup IPEmotion PlugIn Terchnikmedia OPC Vxxx.exe

   to start the installation wizard.
2. **Welcome screen**: This is the first screen in the plug in installation wizard.


OSRAM IPEmotion PlugIn OPC V00.00.05
Welcome to the OSRAM IPEmotion PlugIn OPC V00.00.05 Setup Wizard
The installer will guide you through the steps required to install OSRAM IPEmotion PlugIn OPC V00.00.05 on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

   Click **Next** to continue.

3. **License Agreement**: If you agree with the license agreement, check the radio button **I Agree** and press **Next**.


OSRAM IPEmotion PlugIn OPC V00.00.05
License Agreement
Please take a moment to read the license agreement now. If you accept the terms below, click "I Agree", then "Next". Otherwise click "Cancel".
OSRAM IPEMOTION PLUG IN OPC LICENSE AGREEMENT
This Software is property of OSRAM, and is protected by copyright laws. Its total or partial reproduction is strictly forbidden.
IMPORTANT - READ CAREFULLY!
THIS IS A LEGAL AGREEMENT BETWEEN YOU, LICENSEE, AND OSRAM. BY CHECKING "I Agree" DURING
I Do Not Agree
I Agree
Cancel
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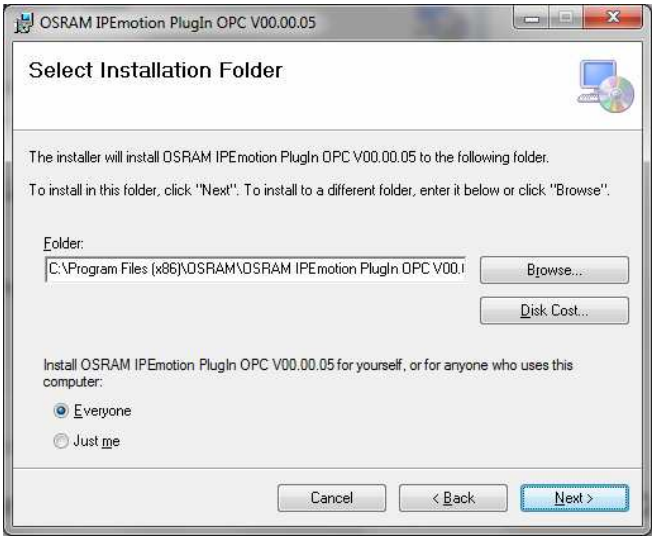
Next >

4. **Installation folder**: Accept the default installation location for the plug in. To select another location click **Browse…** and select another folder.

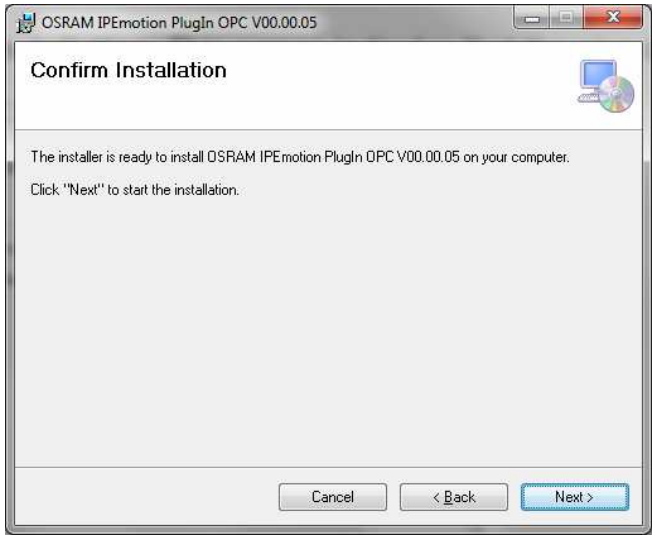

OSRAM IPEmotion PlugIn OPC V00.00.05
Select Installation Folder
The installer will install OSRAM IPEmotion PlugIn OPC V00.00.05 to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files (x86)\OSRAM\OSRAM IPEmotion PlugIn OPC V00.0
Browse...
Disk Cost...
Install OSRAM IPEmotion PlugIn OPC V00.00.05 for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

To get information about available disk space click **Disc Cost…**

By default the plug in is available for anyone. If you want to use it for yourself select **Just me**.

Click **Next** to continue.

5. **Confirm installation**: This screen indicates that the plug in is ready to install.


OSRAM IPEmotion PlugIn OPC V00.00.05
Confirm Installation
The installer is ready to install OSRAM IPEmotion PlugIn OPC V00.00.05 on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >

Click **Next** to start installation.

6. **Installation**: A progress bar is shown during the installation process.
7. **Installation complete**: After successful installation this screen is shown.

Click **Close** to finish installation.

3.3. Uninstall

Windows 7:

1. Open Programs and Features by clicking the **Start** button, clicking **Control Panel**, clicking **Programs** and the clicking **Programs and Features**
2. Select the **IPEmotion PlugIn OSRAM OPC Vxxx** and then click Uninstall.
3. Click **Yes** to confirm removal.

After the successful removal of the plug in the program has been removed from your computer and is no longer indicated in the program list.

4. Licenses

4.1. Demo License

If you have an IPEmotion demo version you automatically can test the plug in until the demo license is expired.

4.2. Full Version

With your full version you have no limitations.

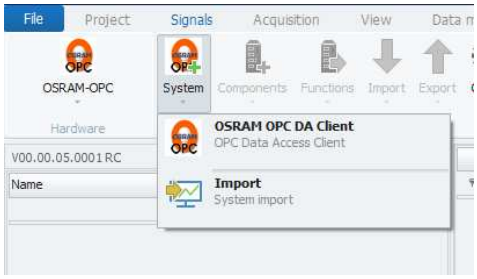
5. Working with OSRAM IPEmotion OPC Plug In

The following chapters offer an overview about the usage of the plug in to handle connected OPC systems. It shows how to configure connections and acquire data. The documentation of analysing and managing the acquired data will not be part of this manual. To get further information for these topics see IPEmotion documentation.

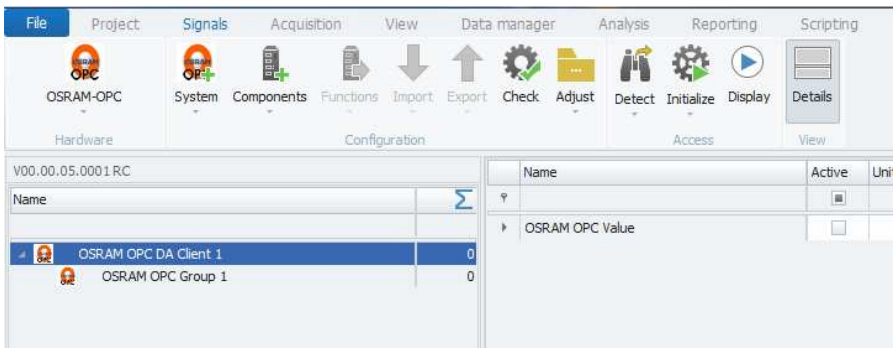
This documentation describes the special features and functions of the plug in. Common IPEmotion functionalities are not part of this documentation. To get further information, see the IPEmotion documentation.

5.1. Adding a OPC system to IPEmotion

First select the **OSRAM OPC** plug in in the IPEmotion **Hardware** selection and then the **OSRAM OPC DA Client** in the **System** selection.

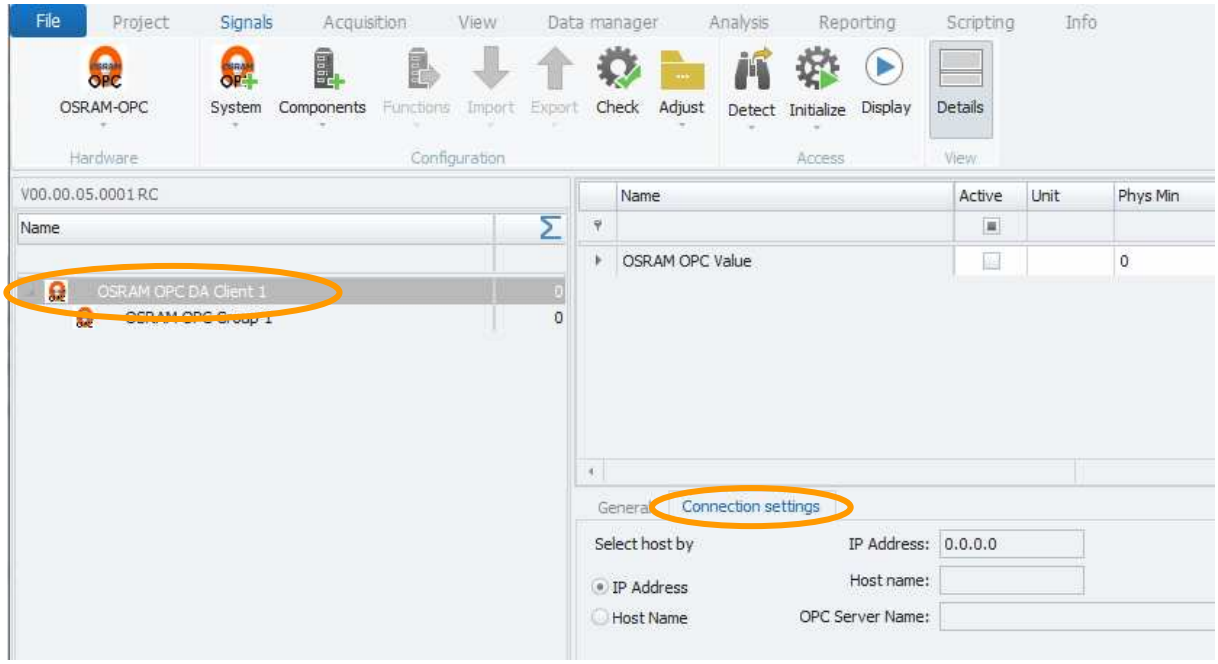


The **OSRAM OPC DA Client** is an IPEmotion MAL system that represents a connection to the OPC DA server. After selecting the **OSRAM OPC DA Client** automatically a first group and a first value element are created.



An **OSRAM OPC Group** is a collection of OPC values with a user defined sampling rate. An **OSRAM OPC Value** represents one OPC server DA item.

In the plug in every OPC client system has characteristic parameters you have to configure. You find the configuration by clicking on the **OSRAM OPC DA Client** system in the tab **Connection settings**.



The following parameters can be configured:

Select Host by IP address or Host Name

Depending on the value you have selected you have to enter the

IP Address IP Address of the OPC server host. If the server is on the local host the IP Address is 0.0.0.0

or

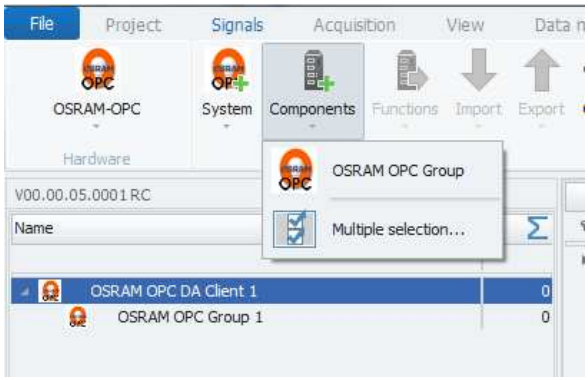
Host Name Name of the host computer in your network

The last value is the

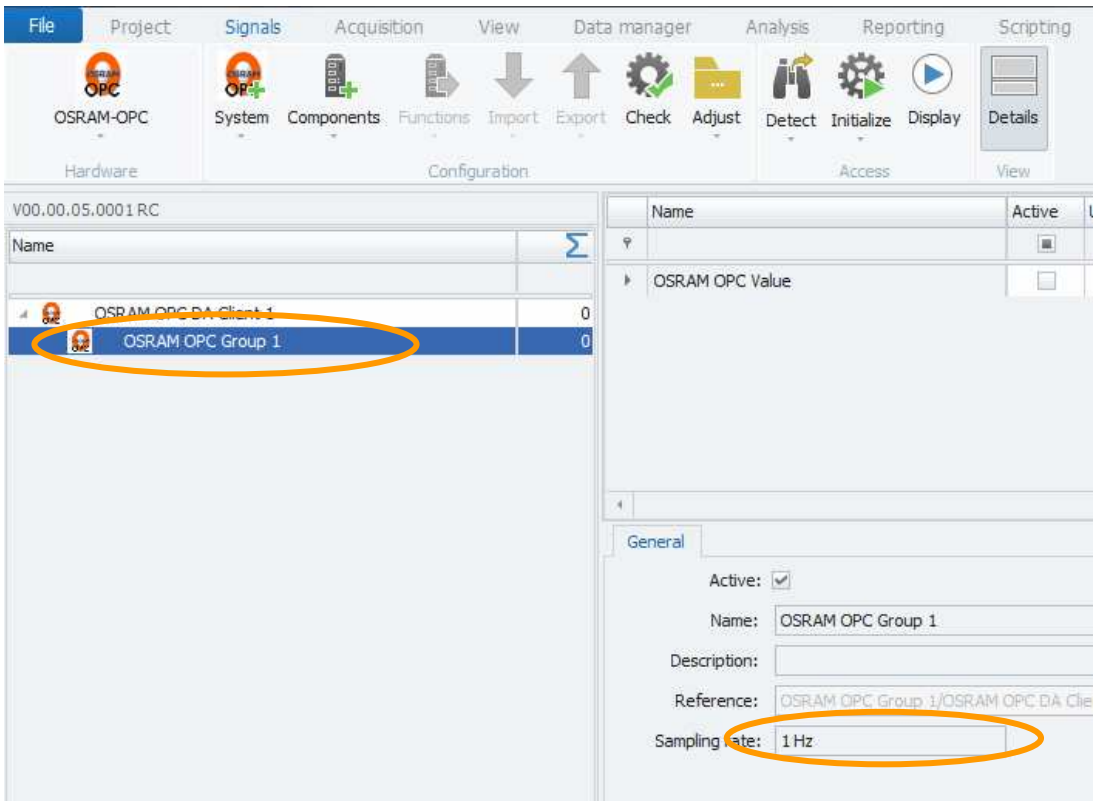
OPC Server Name The name of the OPC server.

5.1.1. Adding OPC groups

Every OSRAM OPC system (connection to an OPC server) has one or more groups to collect values with different sampling rates. To add a group in IPEmotion you have to add a **OSRAM OPC Group** by clicking on the **OSRAM OPC Group** item in the IPEmotion **Components** selection.

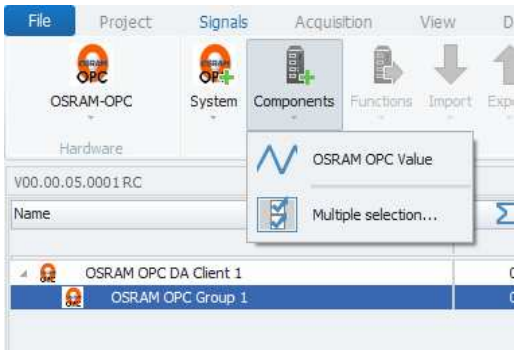


The individual sampling rate of a group is defined by the setting in the Tab **General.**

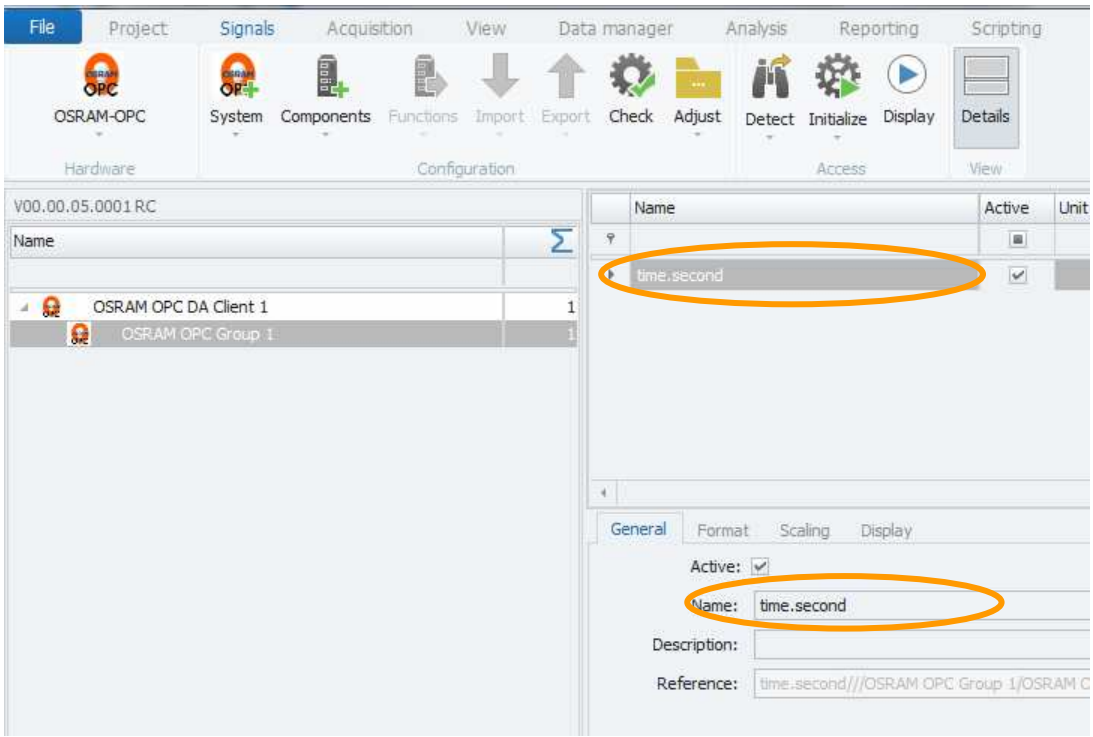


5.1.2. Adding OPC values

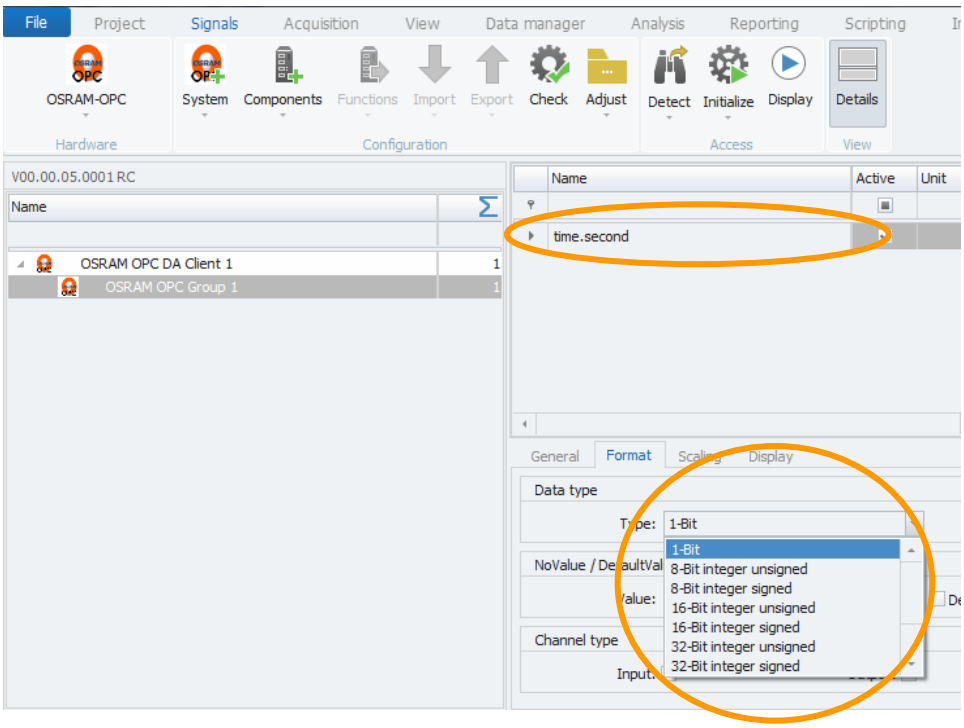
To read or write DA items from a server you have to add **OSRAM OPC values** to a group, so first select your **OPC Group** and then click on the IPEmotion **Components** selection. Select **OSRAM OPC Value**. A new value will be added to you group.



Then you have to select the **OSRAM OPC Value** and enter the DA item name that is used in the OPC server (e.g. **time.second**).

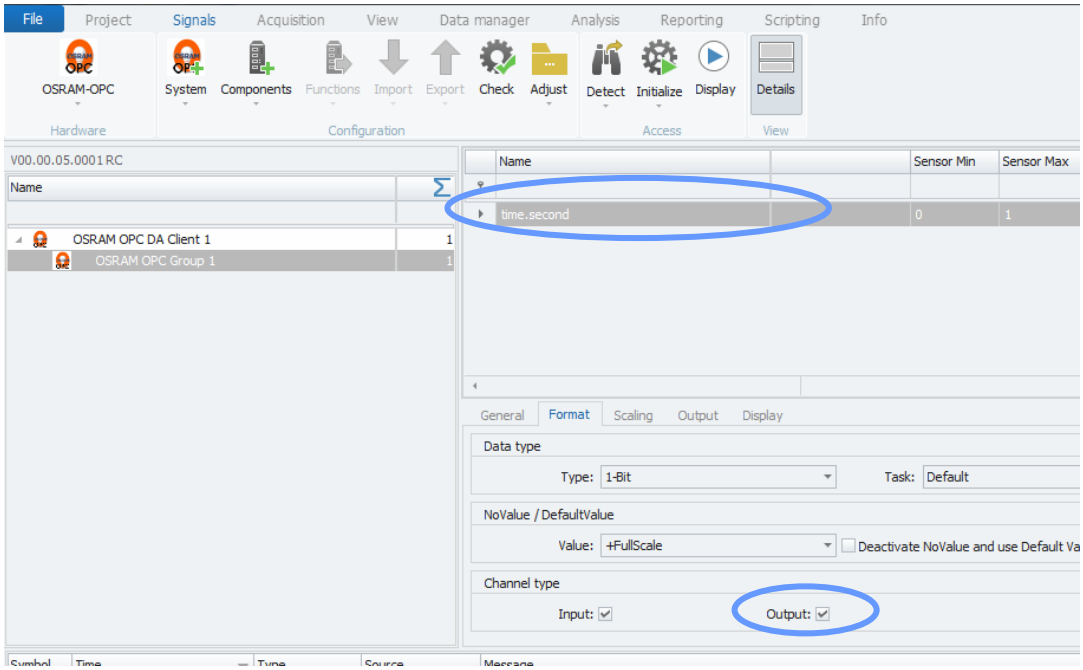


In the next step you have to define the data type of your value. Select the tab **Format** and select the data type in the selection box **Type.**



Hint: If you can not see the tab Format, enable the extended tabs in IPEmotion with **File** ->**Options** ->**Basic Settings** ->(Button) **Expert Mode** -> Check **Extended tabs**

A **OSRAM OPC Value** by default is only readable. To make it writeable in IPEmotion you have to set the value also as an output. Select the **OSRAM OPC Value** you want to make writeable. Then select the Tab **Format** and check the Checkbox **Output**.



Attention: If the data type of your value is of type **Text channel**, no writing will be executed!